

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A method comprising a receiving device performing the steps of:
receiving a multi-carrier signal comprising a plurality of time slots wherein each time slot comprises a plurality of sub-channels;
operating in a first decoding mode, wherein the first decoding mode comprises a low power mode, to decode one or more sub-channels of the plurality of sub-channels, thereby yielding control information; and
if the control information includes indicia of payload directed to the receiving device, operating in a second decoding mode to decode one or more additional sub-channels of the plurality of sub-channels; thereby yielding payload information.
2. (previously presented) The method of claim 1, wherein in the first decoding mode, the receiving device decodes the one or more sub-channels of the plurality of sub-channels, thereby further yielding payload information.
3. (previously presented) The method of claim 1, wherein in the first decoding mode, the receiving device decodes only the one or more sub-channels of the plurality of sub-channels which yield control information.
4. (previously presented) The method of claim 3, wherein in the second decoding mode, the receiving device decodes the one or more sub-channels of the plurality of sub-channels which yields control information and the one or more additional sub-channels of the plurality of sub-channels which yield payload information.

5. (currently amended) ~~The method of claim 1, further comprising~~ ~~a method comprising~~
~~a sending device performing the steps of:~~

~~receiving~~~~transmitting~~ a multi-carrier signal comprising a plurality of time slots wherein
each time slot comprises M sub-channels spanning a bandwidth B_M ; and

~~receiving~~~~transmitting~~ control information in one or more control sub-channels of the M
sub-channels occupying a first portion of the bandwidth B_M .

6. (currently amended) The method of claim 5, wherein the ~~sending device is a base~~
~~station and a receiving device is a radio communication unit.~~

7. (currently amended) The method of claim 5, further comprising:
decoding, by ~~a~~the receiving device, the control sub-channels to receive the control
information.

8. (original) The method of claim 7, whercin the step of decoding the control sub-
channels comprises the receiving device decoding only the control sub-channels.

9. (currently amended) The method of claim 5, further comprising, upon ~~the~~a sending
device having payload information directed to ~~a~~the receiving device:

~~sending, by the sending device,~~ the payload information to the receiving device in one or
more payload sub-channels of the M sub-channels occupying a second portion of the bandwidth
 B_M .

10. (original) The method of claim 9, further comprising:
decoding, by the receiving device, the payload sub-channels to receive the payload
information.

11. (original) The method of claim 10, wherein the step of decoding the payload sub-
channels comprises the receiving device decoding the full bandwidth B_M .

12. (previously presented) The method of claim 9 wherein, prior to sending the payload information, the sending device performs the step of:

sending, via the control sub-channels, a message informing the receiving device to decode at least the one or more payload sub-channels to receive the payload information.

13. (currently amended) The method of claim 5, further comprising, upon ~~the~~ sending device having payload information directed to at the receiving device:

determining, by the sending device, if the payload information can be communicated via the control sub-channels; and

if the payload information can be communicated via the control sub-channels, sending the payload information to the receiving device via the one or more control sub-channels.

14. (original) The method of claim 13, further comprising:

decoding, by the receiving device, the control sub-channels to receive the payload information.

15. (original) The method of claim 14, wherein the step of decoding the control sub-channels comprises the receiving device decoding only the control sub-channels.

16. (currently amended) The method of claim 13, comprising, if the payload information can not be communicated via the control sub-channels,

Sending, by the sending device, the payload information to the receiving device in one or more payload sub-channels of the M sub-channels occupying a second portion of the bandwidth B_M .

17. (original) The method of claim 16, further comprising:

decoding, by the receiving device, the payload sub-channels to receive the payload information.

18. (original) The method of claim 17, wherein the step of decoding the payload sub-channels comprises the receiving device decoding the full bandwidth B_M .

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19. (previously presented) The method of claim 16 wherein, prior to sending the payload information, the sending device performs the steps of:

sending, via the control sub-channels, a message informing the receiving device to decode the one or more payload sub-channels to receive the payload information.

20. (previously presented) A communication device comprising:

an antenna for receiving a multi-carrier signal comprising a plurality of time slots wherein each time slot comprises M sub-channels; and

a decoding element for independently decoding each of the M sub-channels, the decoding element being operable in a first decoding mode, wherein the first decoding mode comprises a low power mode, to decode one or more control sub-channels of the M sub-channels and in a second decoding mode to decode one or more payload sub-channels of the M sub-channels.

21. (original) The communication device of claim 20, wherein in the first decoding mode, the decoding element decodes only the control sub-channels.

22. (original) The communication device of claim 20, wherein in the second decoding mode, the decoding element decodes the control sub-channels and the payload sub-channels.